Study questions for Pre-College Math SAI Data  
Ann Paulson/Updated September, 2010

1. Describe structure of pre-college math courses. *Page 2*
   1. How many pre-college levels does a college have?
   2. How many courses are there on average for each level?
   3. For each level what percentage have specific grade qualifier?
   4. Has there been any significant change in any of these from 2006-2007 2008-2009?
2. Describe students who attempt pre-college math. *Page 3*
   1. How many total students attempted pre-college math courses in 2006-2007, 2007-2008 and 2008-2009?
   2. Disaggregate total pre-college math students by age group, gender, race/ethnicity, enrollment status (full or part-time) and student purpose (workforce, transfer or basic skills) showing change between 2006-2007 and 2008-2009.
   3. Between 2006-2007 and 2008-2009 what percentage of pre-college math students also enrolled in basic skills?
   4. For students who started in 2008-2009, what percentage started at each pre-college level, 1, 2, 3, 4?
   5. For students who started in 2008-2009, what percentage attempted pre-college math with no prior college? Some prior college? Earned a previous quant point?
3. Measure progress of pre-college students through pre-college classes. *Page 12*
   1. What is the total pre-college math achievement points earned?
   2. How many students earned a point, both as a sum and as a percentage of students taking pre-college math classes?
   3. How many points are earned, on average, by each student earning at least one math point?
   4. To what extent do the colleges that had the biggest increase between 2006-2007 and 2008-2009 also have higher than average courses in each level, or do or don’t assign grade qualifiers?
   5. Disaggregate percentage of pre-college math students earning points by age group, gender, race/ethnicity, enrollment status (full or part-time) and student purpose (workforce, transfer or basic skills) for 2008-2009.
4. Describe how pre-college students move through the pre-college classes using a cohort of students who all started in Fall 2006 with no prior college. *Page 23*
   1. For students who started in Fall 2006, what year do they make their first attempt in a pre-college course (through Spring 2009)?
   2. For students who started in Fall 2006 and made their first attempt during 2006-2007, what percent started at each level?
   3. For students who started in Fall 2006 and made their first attempt at Level 1 or Level 2 during 2006-2007, what percent make substantive gains?
   4. For students who started in Fall 2006 and made their first attempt in 2006-2007, what percent earn their quant point by Spring 2009?
   5. Of students who started in Fall of 2006 and took their first math in 2006-2007, what was their highest achievement point reached by Spring of 2009?

**Structure of Pre-College Classes in Washington State Community Colleges**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Describe structure of pre-college math courses.    1. How many pre-college levels does a college have?    2. How many courses are there on average for each level?    3. For each level what percentage have specific grade qualifier?    4. Has there been any significant change in any of these from 2006-2007 2008-2009? | | | | | | |  |  |
|  | |  | |  |  |  |  |  |
| **Number of Levels** | |  | |  |  | **Prior Number of Levels** |  |  |
| 3 Levels\* | | 47% | |  |  | 3 Levels\* | 50% |  |
| 4 Levels | | 53% | |  |  | 4 Levels | 50% |  |
|  | |  | |  |  |  |  |  |
| \*3 colleges skip level 2 | | | | |  |  |  |  |
|  |  | |  | |  |  |  |  |
| **Average Courses Per Level** |  | |  | |  | **Prior Average Courses Per Level** |  |  |
| Level 1 | 1.6 | |  | |  | Level 1 | 1.2 |  |
| Level 2 | 1.7 | |  | |  | Level 2 | 1.6 |  |
| Level 3 | 2.2 | |  | |  | Level 3 | 2.1 |  |
| Level 4 | 1.8 | |  | |  | Level 4 | 1.8 |  |
|  |  | |  | |  |  |  |  |
|  |  | |  | |  |  |  |  |
| **Courses with Grade Qualifiers** |  | |  | |  | **Prior Courses with Grade Qualifiers** |  |  |
| Level | Percent | | Average Grade | |  | Level | Percent | Average Grade |
| Level 1 | 80% | | 1.93 | |  | Level 1 | 83% | 1.96 |
| Level 2 | 92% | | 1.96 | |  | Level 2 | 94% | 1.97 |
| Level 3 | 93% | | 1.99 | |  | Level 3 | 92% | 1.99 |
| Level 4 | 89% | | 1.96 | |  | Level 4 | 88% | 1.97 |

**Study Question 2A: How many total students attempted pre-college math courses in 2006-2007, 2007-2008 and 2008-2009?**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Students Attempting Pre-College Math** | | | | | | | |
| **College Name** | **2006-2007** | **2007-2008** | **2008-200** | **Change 2006-7 to 2007-8** | **Change 2007-8 to 2008-9** | **Change 2006-7 to 2008-9** |
| **Bates** | 210 | 410 | 444 | 95% | 8% | 111% |
| **Bellevue** | 861 | 1362 | 1523 | 58% | 12% | 77% |
| **Bellingham** | 56 | 149 | 340 | 166% | 128% | 507% |
| **Big Bend** | 313 | 501 | 575 | 60% | 15% | 84% |
| **Cascadia** | 433 | 587 | 743 | 36% | 27% | 72% |
| **Centralia** | 282 | 371 | 399 | 32% | 8% | 41% |
| **Clark** | 963 | 1560 | 1993 | 62% | 28% | 107% |
| **Clover Park** | 431 | 712 | 947 | 65% | 33% | 120% |
| **Columbia Basin** | 779 | 1372 | 1025 | 76% | -25% | 32% |
| **Edmonds** | 1080 | 1523 | 1774 | 41% | 16% | 64% |
| **Everett** | 837 | 1193 | 1405 | 43% | 18% | 68% |
| **Grays Harbor** | 242 | 274 | 340 | 13% | 24% | 40% |
| **Green River** | 915 | 1421 | 1647 | 55% | 16% | 80% |
| **Highline** | 693 | 1080 | 1291 | 56% | 20% | 86% |
| **Lake Washington** | 375 | 497 | 707 | 33% | 42% | 89% |
| **Lower Columbia** | 453 | 601 | 762 | 33% | 27% | 68% |
| **Olympic** | 682 | 1036 | 1279 | 52% | 23% | 88% |
| **Peninsula** | 238 | 378 | 541 | 59% | 43% | 127% |
| **Pierce Fort Steilacoom** | 739 | 864 | 1097 | 17% | 27% | 48% |
| **Pierce Puyallup** | 443 | 599 | 754 | 35% | 26% | 70% |
| **Renton** | 11 | 38 | 182 | 245% | 379% | 1555% |
| **Seattle Central** | 622 | 909 | 1198 | 46% | 32% | 93% |
| **Seattle North** | 421 | 548 | 716 | 30% | 31% | 70% |
| **Seattle South** | 415 | 601 | 744 | 45% | 24% | 79% |
| **Shoreline** | 527 | 763 | 902 | 45% | 18% | 71% |
| **Skagit Valley** | 699 | 1018 | 1210 | 46% | 19% | 73% |
| **South Puget Sound** | 602 | 931 | 1037 | 55% | 11% | 72% |
| **Spokane** | 740 | 941 | 1124 | 27% | 19% | 52% |
| **Spokane Falls** | 1608 | 2377 | 2758 | 48% | 16% | 72% |
| **Tacoma** | 822 | 1178 | 1418 | 43% | 20% | 73% |
| **Walla Walla** | 401 | 585 | 690 | 46% | 18% | 72% |
| **Wenatchee Valley** | 515 | 689 | 800 | 34% | 16% | 55% |
| **Whatcom** | 781 | 1149 | 1382 | 47% | 20% | 77% |
| **Yakima Valley** | 512 | 787 | 958 | 54% | 22% | 87% |
|  | 19701 | 29004 | 34705 | 47% | 20% | 76% |

**Study Question 2B: Disaggregate total pre-college math students by age group, gender, race/ethnicity, enrollment status (full or part-time) and student purpose (workforce, transfer or basic skills) showing change between 2006-2007 and 2008-2009.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Students Attempting Pre-College Math 2008-2009 by Age Group**  **With Percentage Point Change from 2006-2007** | | | | | | | | | | | | | | | |
| **College Name** | Total | Under 20 | | Change Since 67 | | 20-29 | | Change Since 67 | | 30-39 | | Change Since 67 | | 40 and above | Change Since 67 |
| **Bates** | 444 | 47% | | 3% | | 23% | | -7% | | 14% | | 3% | | 16% | 2% |
| **Bellevue** | 1523 | 51% | | -13% | | 37% | | 9% | | 8% | | 2% | | 4% | 2% |
| **Bellingham** | 340 | 17% | | 10% | | 43% | | -9% | | 19% | | -1% | | 21% | 1% |
| **Big Bend** | 575 | 47% | | -7% | | 35% | | 3% | | 11% | | 4% | | 7% | 0% |
| **Cascadia** | 743 | 57% | | -4% | | 32% | | 5% | | 7% | | -2% | | 4% | 1% |
| **Centralia** | 399 | 42% | | -7% | | 31% | | 2% | | 14% | | 2% | | 14% | 2% |
| **Clark** | 1993 | 48% | | -9% | | 36% | | 8% | | 10% | | 1% | | 6% | 1% |
| **Clover Park** | 947 | 24% | | -12% | | 42% | | 8% | | 19% | | 0% | | 14% | 4% |
| **Columbia Basin** | 1025 | 50% | | 0% | | 34% | | -1% | | 9% | | -1% | | 6% | 1% |
| **Edmonds** | 1774 | 51% | | -5% | | 33% | | 3% | | 9% | | 1% | | 7% | 2% |
| **Everett** | 1405 | 47% | | -4% | | 34% | | 3% | | 11% | | 0% | | 8% | 2% |
| **Grays Harbor** | 340 | 40% | | -6% | | 33% | | 8% | | 16% | | 3% | | 11% | -5% |
| **Green River** | 1647 | 53% | | -7% | | 33% | | 4% | | 8% | | 1% | | 7% | 3% |
| **Highline** | 1291 | 46% | | -4% | | 37% | | 1% | | 10% | | 2% | | 5% | 1% |
| **Lake Washington** | 707 | 41% | | -9% | | 35% | | 6% | | 11% | | 2% | | 12% | 1% |
| **Lower Columbia** | 762 | 36% | | -9% | | 34% | | 4% | | 17% | | 2% | | 13% | 5% |
| **Olympic** | 1279 | 42% | | -7% | | 36% | | 3% | | 13% | | 3% | | 9% | 1% |
| **Peninsula** | 541 | 40% | | 0% | | 33% | | -7% | | 13% | | 1% | | 13% | 6% |
| **Pierce Fort Steil.** | 1097 | 25% | | -9% | | 52% | | 7% | | 15% | | 0% | | 7% | 2% |
| **Pierce Puyallup** | 754 | 47% | | -1% | | 35% | | -2% | | 10% | | 0% | | 8% | 2% |
| **Renton** | 182 | 19% | | -9% | | 46% | | 27% | | 20% | | -16% | | 15% | -3% |
| **Seattle Central** | 1198 | 33% | | -3% | | 53% | | 2% | | 10% | | 0% | | 4% | 0% |
| **Seattle North** | 716 | 23% | | -8% | | 50% | | 5% | | 16% | | 1% | | 11% | 3% |
| **Seattle South** | 744 | 32% | | -2% | | 45% | | -4% | | 15% | | 4% | | 8% | 2% |
| **Shoreline** | 902 | 51% | | -3% | | 35% | | 4% | | 9% | | 0% | | 5% | -1% |
| **Skagit Valley** | 1210 | 42% | | -5% | | 36% | | 3% | | 13% | | 1% | | 9% | 0% |
| **South Puget S.** | 1037 | 40% | | -4% | | 39% | | 1% | | 13% | | 1% | | 8% | 3% |
| **Spokane** | 1124 | 36% | | 0% | | 45% | | -1% | | 13% | | 1% | | 5% | -1% |
| **Spokane Falls** | 2758 | 52% | | -5% | | 37% | | 3% | | 7% | | 1% | | 4% | 1% |
| **Tacoma** | 1418 | 43% | | -7% | | 39% | | 3% | | 11% | | 3% | | 7% | 1% |
| **Walla Walla** | 690 | 49% | | -8% | | 33% | | 6% | | 10% | | 0% | | 8% | 3% |
| **Wenatchee Valley** | 800 | 44% | | -4% | | 36% | | 1% | | 13% | | 3% | | 7% | 0% |
| **Whatcom** | 1382 | 51% | | -3% | | 40% | | 3% | | 6% | | 0% | | 4% | 1% |
| **Yakima Valley** | 958 | 47% | | -2% | | 36% | | 1% | | 9% | | 0% | | 8% | 2% |
|  | 34705 | 44% | | -6% | | 38% | | 3% | | 11% | | 1% | | 7% | 2% |
| **Students Attempting Pre-College Math 2008-2009 by Gender With Percentage Point Change from 2006-2007** | | | | | | | | | | | | |
| **College Name** | | | Total | | Female 2008-2009 | | Change from 2006-7 | | Male 2008-2009 | | Change from 2006-7 | |
| Bates | | | 444 | | 27% | | 0% | | 73% | | 0% | |
| Bellevue | | | 1523 | | 48% | | -2% | | 52% | | 2% | |
| Bellingham | | | 340 | | 51% | | -34% | | 48% | | 34% | |
| Big Bend | | | 575 | | 54% | | -3% | | 46% | | 3% | |
| Cascadia | | | 743 | | 57% | | 5% | | 43% | | -5% | |
| Centralia | | | 399 | | 60% | | 2% | | 40% | | -3% | |
| Clark | | | 1993 | | 53% | | 0% | | 47% | | -1% | |
| Clover Park | | | 947 | | 57% | | -1% | | 43% | | 1% | |
| Columbia Basin | | | 1025 | | 59% | | 2% | | 41% | | -2% | |
| Edmonds | | | 1774 | | 51% | | 2% | | 49% | | -2% | |
| Everett | | | 1405 | | 55% | | 1% | | 44% | | -1% | |
| Grays Harbor | | | 340 | | 51% | | -1% | | 49% | | 1% | |
| Green River | | | 1647 | | 52% | | -1% | | 48% | | 1% | |
| Highline | | | 1291 | | 55% | | -1% | | 45% | | 1% | |
| Lake Washington | | | 707 | | 40% | | 0% | | 60% | | 0% | |
| Lower Columbia | | | 762 | | 54% | | -2% | | 45% | | 2% | |
| Olympic | | | 1279 | | 52% | | -5% | | 48% | | 5% | |
| Peninsula | | | 541 | | 54% | | -3% | | 46% | | 3% | |
| Pierce Fort Steilacoom | | | 1097 | | 51% | | 1% | | 49% | | -1% | |
| Pierce Puyallup | | | 754 | | 58% | | -3% | | 42% | | 3% | |
| Renton | | | 182 | | 64% | | 0% | | 36% | | 0% | |
| Seattle Central | | | 1198 | | 54% | | 1% | | 45% | | -1% | |
| Seattle North | | | 716 | | 55% | | 6% | | 45% | | -7% | |
| Seattle South | | | 744 | | 57% | | 1% | | 41% | | -2% | |
| Shoreline | | | 902 | | 50% | | -3% | | 47% | | 2% | |
| Skagit Valley | | | 1210 | | 58% | | -1% | | 42% | | 1% | |
| South Puget Sound | | | 1037 | | 53% | | 4% | | 44% | | -5% | |
| Spokane | | | 1124 | | 57% | | 1% | | 43% | | -1% | |
| Spokane Falls | | | 2758 | | 54% | | -2% | | 46% | | 2% | |
| Tacoma | | | 1418 | | 58% | | 2% | | 42% | | -2% | |
| Walla Walla | | | 690 | | 47% | | 1% | | 53% | | -1% | |
| Wenatchee Valley | | | 800 | | 61% | | 7% | | 40% | | -7% | |
| Whatcom | | | 1382 | | 50% | | 0% | | 49% | | 0% | |
| Yakima Valley | | | 958 | | 56% | | 0% | | 44% | | 0% | |
|  | | | 34705 | | 53% | | 0% | | 46% | | 0% | |

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| **Students Attempting Pre-College Math 2008-2009**  **by Race/Ethnicity** | | | | | | | |
| College Name | Total | Asian/ Pacific Islander | African American | Native American | Latino | Multiracial Other | White |
| Bates | 444 | 6% | 12% | 3% | 9% | 1% | 64% |
| Bellevue | 1523 | 15% | 7% | 1% | 7% | 3% | 64% |
| Bellingham | 340 | 4% | 5% | 2% | 5% | 2% | 68% |
| Big Bend | 575 | 2% | 2% | 2% | 27% | 3% | 62% |
| Cascadia | 743 | 4% | 1% | 1% | 6% | 6% | 72% |
| Centralia | 399 | 0% | 2% | 2% | 9% | 4% | 81% |
| Clark | 1993 | 4% | 3% | 1% | 7% | 4% | 75% |
| Clover Park | 947 | 3% | 15% | 1% | 5% | 2% | 64% |
| Columbia Basin | 1025 | 1% | 2% | 1% | 28% | 2% | 66% |
| Edmonds | 1774 | 13% | 7% | 1% | 9% | 8% | 58% |
| Everett | 1405 | 5% | 2% | 1% | 5% | 9% | 70% |
| Grays Harbor | 340 | 3% | 2% | 4% | 6% | 6% | 79% |
| Green River | 1647 | 8% | 7% | 1% | 6% | 6% | 68% |
| Highline | 1291 | 16% | 16% | 1% | 8% | 12% | 42% |
| Lake Washington | 707 | 7% | 4% | 0% | 8% | 4% | 72% |
| Lower Columbia | 762 | 1% | 1% | 1% | 6% | 3% | 82% |
| Olympic | 1279 | 7% | 5% | 1% | 6% | 7% | 71% |
| Peninsula | 541 | 1% | 2% | 4% | 9% | 5% | 73% |
| Pierce Fort Steilacoom | 1097 | 6% | 15% | 2% | 12% | 8% | 55% |
| Pierce Puyallup | 754 | 5% | 4% | 3% | 6% | 6% | 74% |
| Renton | 182 | 21% | 17% | 1% | 7% | 4% | 45% |
| Seattle Central | 1198 | 13% | 15% | 2% | 8% | 8% | 48% |
| Seattle North | 716 | 11% | 11% | 2% | 7% | 9% | 52% |
| Seattle South | 744 | 16% | 19% | 1% | 10% | 5% | 36% |
| Shoreline | 902 | 13% | 9% | 0% | 6% | 7% | 55% |
| Skagit Valley | 1210 | 4% | 3% | 1% | 10% | 5% | 77% |
| South Puget Sound | 1037 | 5% | 4% | 2% | 8% | 8% | 64% |
| Spokane | 1124 | 3% | 3% | 3% | 7% | 4% | 78% |
| Spokane Falls | 2758 | 3% | 3% | 2% | 7% | 5% | 78% |
| Tacoma | 1418 | 6% | 10% | 2% | 9% | 8% | 57% |
| Walla Walla | 690 | 2% | 1% | 2% | 17% | 3% | 73% |
| Wenatchee Valley | 800 | 1% | 0% | 4% | 25% | 4% | 63% |
| Whatcom | 1382 | 4% | 2% | 1% | 6% | 6% | 75% |
| Yakima Valley | 958 | 2% | 1% | 3% | 37% | 3% | 54% |
|  | 34705 | 6% | 6% | 2% | 10% | 6% | 66% |

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| **Students Attempting Pre-College Math 2008-2009 by FT/PT With Percentage Point Change from 2006-2007** | | | | | |
| College Name | Total | Full-Time 2008-2009 | Change from FT 2006-7 | Part-Time 2008-2009 | Change from 2006-7 |
| Bates | 444 | 89% | -4% | 11% | 4% |
| Bellevue | 1523 | 63% | -1% | 37% | 1% |
| Bellingham | 340 | 53% | 23% | 47% | -23% |
| Big Bend | 575 | 79% | -3% | 21% | 3% |
| Cascadia | 743 | 59% | -1% | 41% | 1% |
| Centralia | 399 | 72% | -3% | 28% | 3% |
| Clark | 1993 | 58% | -7% | 42% | 7% |
| Clover Park | 947 | 79% | 0% | 21% | 0% |
| Columbia Basin | 1025 | 62% | -5% | 38% | 5% |
| Edmonds | 1774 | 60% | -4% | 40% | 4% |
| Everett | 1405 | 53% | -11% | 47% | 11% |
| Grays Harbor | 340 | 74% | -12% | 26% | 12% |
| Green River | 1647 | 63% | -14% | 37% | 14% |
| Highline | 1291 | 54% | -14% | 46% | 14% |
| Lake Washington | 707 | 74% | 3% | 26% | -3% |
| Lower Columbia | 762 | 73% | -9% | 27% | 9% |
| Olympic | 1279 | 54% | -7% | 46% | 7% |
| Peninsula | 541 | 63% | -6% | 37% | 6% |
| Pierce Fort Steilacoom | 1097 | 51% | -9% | 49% | 9% |
| Pierce Puyallup | 754 | 40% | -7% | 60% | 7% |
| Renton | 182 | 53% | 25% | 47% | -25% |
| Seattle Central | 1198 | 58% | 0% | 42% | 0% |
| Seattle North | 716 | 49% | -7% | 51% | 7% |
| Seattle South | 744 | 47% | -4% | 53% | 4% |
| Shoreline | 902 | 62% | -7% | 38% | 7% |
| Skagit Valley | 1210 | 57% | -4% | 43% | 4% |
| South Puget Sound | 1037 | 56% | 1% | 44% | -1% |
| Spokane | 1124 | 75% | -3% | 25% | 3% |
| Spokane Falls | 2758 | 58% | -1% | 42% | 1% |
| Tacoma | 1418 | 66% | 0% | 34% | 0% |
| Walla Walla | 690 | 77% | -4% | 23% | 4% |
| Wenatchee Valley | 800 | 68% | -4% | 32% | 4% |
| Whatcom | 1382 | 56% | -7% | 44% | 7% |
| Yakima Valley | 958 | 69% | -7% | 31% | 7% |
|  | 34705 | 61% | -5% | 39% | 5% |

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| **Students Attempting Pre-College Math 2008-2009 by Purpose  With Percentage Point Change from 2006-2007** | | | | | | | |
| CollegeName | Total | Basic Skills | Change from 67 | Transfer | Change from 67 | Workforce | Change from 67 |
| Bates | 444 | 25% | 5% | 1% | 1% | 73% | -6% |
| Bellevue | 1523 | 2% | -1% | 85% | -12% | 11% | 10% |
| Bellingham | 340 | 1% | 1% | 0% | 0% | 99% | -1% |
| Big Bend | 575 | 2% | 1% | 84% | -5% | 14% | 5% |
| Cascadia | 743 | 2% | 1% | 93% | -4% | 4% | 3% |
| Centralia | 399 | 4% | -2% | 60% | -10% | 33% | 8% |
| Clark | 1993 | 2% | 0% | 77% | -13% | 20% | 12% |
| Clover Park | 947 | 6% | 2% | 1% | 0% | 92% | -3% |
| Columbia Basin | 1025 | 0% | 0% | 76% | -4% | 23% | 4% |
| Edmonds | 1774 | 8% | 1% | 76% | -10% | 15% | 9% |
| Everett | 1405 | 2% | 0% | 77% | 0% | 21% | 0% |
| Grays Harbor | 340 | 4% | 1% | 60% | 0% | 35% | -2% |
| Green River | 1647 | 3% | 1% | 79% | -8% | 18% | 7% |
| Highline | 1291 | 4% | 0% | 80% | -8% | 15% | 8% |
| Lake Washington | 707 | 4% | -7% | 17% | -3% | 78% | 9% |
| Lower Columbia | 762 | 2% | -1% | 48% | -17% | 49% | 17% |
| Olympic | 1279 | 1% | -1% | 71% | -15% | 26% | 15% |
| Peninsula | 541 | 5% | 0% | 60% | -11% | 34% | 12% |
| Pierce Fort Steilacoom | 1097 | 0% | 0% | 87% | -5% | 13% | 5% |
| Pierce Puyallup | 754 | 1% | 0% | 87% | -5% | 12% | 5% |
| Renton | 182 | 6% | 6% | 27% | -46% | 66% | 39% |
| Seattle Central | 1198 | 2% | -1% | 89% | -5% | 8% | 5% |
| Seattle North | 716 | 4% | 1% | 74% | -11% | 22% | 9% |
| Seattle South | 744 | 2% | 0% | 83% | -7% | 13% | 6% |
| Shoreline | 902 | 3% | 0% | 71% | -8% | 26% | 8% |
| Skagit Valley | 1210 | 2% | 0% | 72% | -5% | 26% | 5% |
| South Puget Sound | 1037 | 0% | -1% | 73% | -8% | 27% | 9% |
| Spokane | 1124 | 1% | 0% | 82% | -7% | 16% | 6% |
| Spokane Falls | 2758 | 1% | 1% | 92% | -4% | 6% | 3% |
| Tacoma | 1418 | 0% | 0% | 87% | -8% | 10% | 6% |
| Walla Walla | 690 | 12% | -1% | 60% | -5% | 27% | 6% |
| Wenatchee Valley | 800 | 3% | 0% | 79% | -11% | 19% | 10% |
| Whatcom | 1382 | 2% | 0% | 81% | 1% | 17% | -2% |
| Yakima Valley | 958 | 3% | 1% | 72% | -7% | 24% | 6% |
|  | 34705 | 3% | 0% | 73% | -8% | 23% | 8% |

**Study Question 2C: Between 2006-2007 and 2008-2009 what percentage of pre-college math students also enrolled in basic skills?**

|  |  |  |
| --- | --- | --- |
| **Total Students Attempting Pre-College Math and  Basic Skills** | | |
|  | Basic Skills Students | Percentage of Total |
| 2006-2007 | 278 | 1% |
| 2008-2009 | 763 | 2% |

**Study Question 2D: For students who started in 2008-2009, what percentage started at each pre-college level, 1, 2, 3, 4?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Students *Starting* Pre-College Math in 2008-2009  by First Level Attempted** | | | | | |
| College Name | Total | Start Level 1 | Start Level 2 | Start Level 3 | Start Level 4 |
| Bates | 364 | 0% | 30% | 41% | 28% |
| Bellevue | 1341 | 5% | 33% | 29% | 33% |
| Bellingham | 334 | 0% | 12% | 55% | 33% |
| Big Bend | 522 | 15% | 38% | 30% | 16% |
| Cascadia | 696 | 0% | 17% | 24% | 60% |
| Centralia | 351 | 0% | 44% | 41% | 15% |
| Clark | 1661 | 35% | 15% | 32% | 18% |
| Clover Park | 879 | 0% | 65% | 30% | 5% |
| Columbia Basin | 836 | 0% | 15% | 32% | 53% |
| Edmonds | 1560 | 10% | 19% | 35% | 36% |
| Everett | 1227 | 28% | 20% | 31% | 22% |
| Grays Harbor | 322 | 36% | 1% | 31% | 32% |
| Green River | 1458 | 0% | 27% | 48% | 24% |
| Highline | 1128 | 0% | 40% | 28% | 32% |
| Lake Washington | 656 | 49% | 0% | 44% | 8% |
| Lower Columbia | 667 | 25% | 24% | 39% | 11% |
| Olympic | 1155 | 0% | 61% | 0% | 39% |
| Peninsula | 482 | 0% | 55% | 30% | 15% |
| Pierce Fort Steilacoom | 975 | 21% | 0% | 44% | 35% |
| Pierce Puyallup | 667 | 24% | 0% | 48% | 28% |
| Renton | 179 | 0% | 61% | 32% | 7% |
| Seattle Central | 1044 | 20% | 41% | 15% | 23% |
| Seattle North | 645 | 35% | 12% | 35% | 19% |
| Seattle South | 624 | 34% | 25% | 16% | 25% |
| Shoreline | 776 | 0% | 31% | 49% | 20% |
| Skagit Valley | 1073 | 45% | 32% | 13% | 10% |
| South Puget Sound | 887 | 0% | 33% | 42% | 25% |
| Spokane | 985 | 15% | 36% | 27% | 22% |
| Spokane Falls | 2465 | 11% | 39% | 13% | 37% |
| Tacoma | 1207 | 0% | 0% | 76% | 24% |
| Walla Walla | 607 | 21% | 20% | 38% | 21% |
| Wenatchee Valley | 711 | 0% | 20% | 44% | 36% |
| Whatcom | 1200 | 11% | 35% | 39% | 14% |
| Yakima Valley | 830 | 24% | 21% | 38% | 16% |
|  | 30514 | 14% | 27% | 33% | 26% |

**Study Question 2E: For students who started in 2008-2009, what percentage attempted pre-college math with no prior college? Some prior college? Earned a previous quant point?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Students *Starting* Pre-College Math in 2008-2009 by Prior College Category** | | | | |
| College Name | Total | No Prior College | Some Prior College | Prior Quant Point |
| Bates | 364 | 87% | 13% | 0% |
| Bellevue | 1341 | 66% | 31% | 3% |
| Bellingham | 334 | 76% | 22% | 1% |
| Big Bend | 522 | 68% | 22% | 10% |
| Cascadia | 696 | 73% | 27% | 1% |
| Centralia | 351 | 70% | 27% | 3% |
| Clark | 1661 | 70% | 27% | 3% |
| Clover Park | 879 | 63% | 36% | 1% |
| Columbia Basin | 836 | 60% | 38% | 1% |
| Edmonds | 1560 | 69% | 23% | 9% |
| Everett | 1227 | 67% | 29% | 4% |
| Grays Harbor | 322 | 70% | 19% | 11% |
| Green River | 1458 | 61% | 34% | 4% |
| Highline | 1128 | 62% | 34% | 5% |
| Lake Washington | 656 | 61% | 37% | 2% |
| Lower Columbia | 667 | 68% | 28% | 4% |
| Olympic | 1155 | 69% | 27% | 3% |
| Peninsula | 482 | 63% | 35% | 1% |
| Pierce Fort Steil. | 975 | 64% | 33% | 3% |
| Pierce Puyallup | 667 | 71% | 28% | 1% |
| Renton | 179 | 37% | 51% | 12% |
| Seattle Central | 1044 | 62% | 35% | 3% |
| Seattle North | 645 | 62% | 35% | 2% |
| Seattle South | 624 | 59% | 38% | 3% |
| Shoreline | 776 | 65% | 30% | 5% |
| Skagit Valley | 1073 | 69% | 29% | 2% |
| South Puget Sound | 887 | 64% | 30% | 6% |
| Spokane | 985 | 60% | 33% | 7% |
| Spokane Falls | 2465 | 70% | 26% | 4% |
| Tacoma | 1207 | 70% | 28% | 2% |
| Walla Walla | 607 | 65% | 32% | 3% |
| Wenatchee Valley | 711 | 73% | 24% | 2% |
| Whatcom | 1200 | 65% | 32% | 3% |
| Yakima Valley | 830 | 65% | 32% | 4% |
|  | 30514 | 66% | 30% | 4% |

**Question 3A: What is the total of pre-college math achievement points earned?**

|  |  |  |  |
| --- | --- | --- | --- |
| Total Pre-College Math Points Earned 2006-2007 Compared to 2008-2009 | | | |
| College Name | Sum of Points 2006-7 | Sum of Points 2008-9 | Change  2006-7 to 2008-9 |
| Bates | 204 | 428 | 110% |
| Bellevue | 826 | 1319 | 60% |
| Bellingham | 19 | 263 | 1284% |
| Big Bend | 239 | 462 | 93% |
| Cascadia | 402 | 661 | 64% |
| Centralia | 343 | 481 | 40% |
| Clark | 1182 | 2425 | 105% |
| Clover Park | 415 | 853 | 106% |
| Columbia Basin | 710 | 948 | 34% |
| Edmonds | 903 | 1388 | 54% |
| Everett | 772 | 1272 | 65% |
| Grays Harbor | 213 | 333 | 56% |
| Green River | 919 | 1632 | 78% |
| Highline | 593 | 1123 | 89% |
| Lake Washington | 366 | 745 | 104% |
| Lower Columbia | 428 | 726 | 70% |
| Olympic | 652 | 1123 | 72% |
| Peninsula | 203 | 497 | 145% |
| Pierce Fort Steilacoom | 623 | 859 | 38% |
| Pierce Puyallup | 408 | 687 | 68% |
| Renton | 8 | 162 | 1925% |
| Seattle Central | 612 | 1207 | 97% |
| Seattle North | 375 | 665 | 77% |
| Seattle South | 421 | 739 | 76% |
| Shoreline | 470 | 777 | 65% |
| Skagit Valley | 773 | 1120 | 45% |
| South Puget Sound | 639 | 1046 | 64% |
| Spokane | 670 | 1041 | 55% |
| Spokane Falls | 1125 | 2228 | 98% |
| Tacoma | 703 | 1306 | 86% |
| Walla Walla | 363 | 565 | 56% |
| Wenatchee Valley | 398 | 563 | 41% |
| Whatcom | 978 | 1575 | 61% |
| Yakima Valley | 563 | 996 | 77% |
|  | 18518 | 32215 | 74% |

**Question 3B: How many students earned a point, both as a sum and as a percentage of students taking pre-college math classes?**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Percentage of Pre-College Math Students Earning Achievement Points | | | | | | |
| College Name | Total Students 2006-2007 | Students Earning Points 2006-2007 | Percentage of Students Earning Points 2006-2007 | Total Students 2008-209 | Students Earning Points 2008-2009 | Percentage of Students Earning Points 2008-2009 |
| Bates | 210 | 158 | 75% | 444 | 337 | 76% |
| Bellevue | 861 | 618 | 72% | 1523 | 1003 | 66% |
| Bellingham | 56 | 19 | 34% | 340 | 209 | 61% |
| Big Bend | 313 | 183 | 58% | 575 | 361 | 63% |
| Cascadia | 433 | 308 | 71% | 743 | 540 | 73% |
| Centralia | 282 | 263 | 93% | 399 | 373 | 93% |
| Clark | 963 | 789 | 82% | 1993 | 1665 | 84% |
| Clover Park | 431 | 316 | 73% | 947 | 669 | 71% |
| Columbia Basin | 779 | 566 | 73% | 1025 | 770 | 75% |
| Edmonds | 1080 | 724 | 67% | 1774 | 1121 | 63% |
| Everett | 837 | 538 | 64% | 1405 | 942 | 67% |
| Grays Harbor | 242 | 171 | 71% | 340 | 255 | 75% |
| Green River | 915 | 653 | 71% | 1647 | 1197 | 73% |
| Highline | 693 | 461 | 67% | 1291 | 873 | 68% |
| Lake Washington | 375 | 307 | 82% | 707 | 596 | 84% |
| Lower Columbia | 453 | 306 | 68% | 762 | 513 | 67% |
| Olympic | 682 | 538 | 79% | 1279 | 946 | 74% |
| Peninsula | 238 | 143 | 60% | 541 | 367 | 68% |
| Pierce Fort Steil. | 739 | 485 | 66% | 1097 | 700 | 64% |
| Pierce Puyallup | 443 | 308 | 70% | 754 | 522 | 69% |
| Renton | 11 | 7 | 64% | 182 | 140 | 77% |
| Seattle Central | 622 | 417 | 67% | 1198 | 864 | 72% |
| Seattle North | 421 | 271 | 64% | 716 | 493 | 69% |
| Seattle South | 415 | 325 | 78% | 744 | 569 | 76% |
| Shoreline | 527 | 355 | 67% | 902 | 590 | 65% |
| Skagit Valley | 699 | 494 | 71% | 1210 | 813 | 67% |
| South Puget Sound | 602 | 472 | 78% | 1037 | 789 | 76% |
| Spokane | 740 | 493 | 67% | 1124 | 749 | 67% |
| Spokane Falls | 1608 | 751 | 47% | 2758 | 1699 | 62% |
| Tacoma | 822 | 544 | 66% | 1418 | 1084 | 76% |
| Walla Walla | 401 | 266 | 66% | 690 | 434 | 63% |
| Wenatchee Valley | 515 | 339 | 66% | 800 | 459 | 57% |
| Whatcom | 781 | 621 | 80% | 1382 | 1076 | 78% |
| Yakima Valley | 512 | 370 | 72% | 958 | 716 | 75% |
|  | 19701 | 13579 | 69% | 34705 | 24434 | 70% |

**Question 3C: How many points are earned, on average, by each student earning at least one math point?**

|  |  |  |
| --- | --- | --- |
| Average Pre-College Math Points Per Student  2006-2007 to 2008-2009 | | |
| College Name | Average Points Per Student 2006-2007 | Average Points Per Student 2008-2009 |
| Bates | 1.29 | 1.27 |
| Bellevue | 1.34 | 1.32 |
| Bellingham | 1.00 | 1.26 |
| Big Bend | 1.31 | 1.28 |
| Cascadia | 1.31 | 1.22 |
| Centralia | 1.30 | 1.29 |
| Clark | 1.50 | 1.46 |
| Clover Park | 1.31 | 1.28 |
| Columbia Basin | 1.25 | 1.23 |
| Edmonds | 1.25 | 1.24 |
| Everett | 1.43 | 1.35 |
| Grays Harbor | 1.25 | 1.31 |
| Green River | 1.41 | 1.36 |
| Highline | 1.29 | 1.29 |
| Lake Washington | 1.19 | 1.25 |
| Lower Columbia | 1.40 | 1.42 |
| Olympic | 1.21 | 1.19 |
| Peninsula | 1.42 | 1.35 |
| Pierce Fort Steilacoom | 1.28 | 1.23 |
| Pierce Puyallup | 1.32 | 1.32 |
| Renton | 1.14 | 1.16 |
| Seattle Central | 1.47 | 1.40 |
| Seattle North | 1.38 | 1.35 |
| Seattle South | 1.30 | 1.30 |
| Shoreline | 1.32 | 1.32 |
| Skagit Valley | 1.56 | 1.38 |
| South Puget Sound | 1.35 | 1.33 |
| Spokane | 1.36 | 1.39 |
| Spokane Falls | 1.50 | 1.31 |
| Tacoma | 1.29 | 1.20 |
| Walla Walla | 1.36 | 1.30 |
| Wenatchee Valley | 1.17 | 1.23 |
| Whatcom | 1.57 | 1.46 |
| Yakima Valley | 1.52 | 1.39 |
|  | 1.36 | 1.32 |

**Study Question 3D: To what extent do the colleges that had the biggest increase between 2006-2007 and 2008-2009 also have higher than average courses in each level, or do or don’t assign grade qualifiers?**

Notes on number of courses per level (Chart on next page):

* Statewide, the biggest change in courses by level was the addition of 6 courses in level 1.
* Reviewing the nine colleges that had more than 50% increase in students earning points, six of them had no change in courses offered by level, two added one total course and one added two total courses.
* Reviewing the five colleges that had the biggest increase in points per student, four had no change in courses offered by level and one added one course.
* Reviewing the four schools with the greatest A89 points per student:
  + Seattle Central has 13 total classes in pre-college math (compared to an average of 6.4), and much higher than the average classes per level in all but the first level.
  + Lower Columbia has 6 total classes in pre-college math, higher than average in levels 1 and 2 and much lower than average in levels 3 and 4.
  + Clark also has 6 total classes.
  + Whatcom has only 5 total classes.

Notes on grade qualifiers:

|  |  |  |
| --- | --- | --- |
| Courses with no grade qualifiers | Prior | Current |
| Bellingham | 3 | 4 |
| Centralia | 3 | 3 |
| Clark | 6 | 6 |
| Grays Harbor | 1 | 1 |
| Lake Washington | 3 | 3 |
| Seattle South | 1 | 2 |
| South Puget Sound | 1 | 1 |
| Tacoma | 1 | 0 |
| Whatcom | 1 | 2 |

Both Clark and Whatcom are at the top of the list for highest average points per student. Clark appears to have no grade qualifiers for any precollege math classes. Whatcom has qualifiers for 3 of 5 classes.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Courses by Level Compared to "Prior" Courses by Level | | | | | | | | | | |
| College Name | Total Classes | Change | 1 | Change | 2 | Change | 3 | Change | 4 | Change |
| Bates | 5 | 0 |  | 0 | 2 | 0 | 1 | 0 | 2 | 0 |
| Bellevue | 5 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 0 |
| Bellingham | 5 | 1 |  | 0 | 3 | 1 | 1 | 0 | 1 | 0 |
| Big Bend | 8 | 1 | 2 | 1 | 1 | 0 | 3 | 0 | 2 | 0 |
| Cascadia | 3 | 0 |  | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Centralia | 3 | 0 |  | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Clark | 6 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 |
| Clover Park | 6 | 2 |  | 0 | 1 | 0 | 4 | 2 | 1 | 0 |
| Columbia Basin | 12 | 6 |  | 0 | 2 | 1 | 4 | 2 | 6 | 3 |
| Edmonds | 13 | 2 | 2 | 0 | 3 | 1 | 3 | 1 | 5 | 0 |
| Everett | 7 | -7 | 1 | -1 | 2 | -2 | 3 | -3 | 1 | -1 |
| Grays Harbor | 5 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 |
| Green River | 3 | 0 |  | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Highline | 10 | 4 | 2 | 2 | 3 | 1 | 2 | 0 | 3 | 1 |
| Lake Washington | 3 | 0 | 1 | 0 |  | 0 | 1 | 0 | 1 | 0 |
| Lower Columbia | 6 | 2 | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 0 |
| Olympic | 4 | -2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | -2 |
| Peninsula | 3 | 0 |  | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Pierce Fort Steilacoom | 7 | 1 | 2 | 1 |  | 0 | 3 | 0 | 2 | 0 |
| Pierce Puyallup | 7 | 1 | 2 | 1 |  | 0 | 3 | 0 | 2 | 0 |
| Renton | 9 | 0 |  | 0 | 3 | 0 | 3 | 0 | 3 | 0 |
| Seattle Central | 13 | 0 | 1 | 0 | 4 | 0 | 4 | 0 | 4 | 0 |
| Seattle North | 9 | 0 | 1 | 0 | 2 | 0 | 4 | 0 | 2 | 0 |
| Seattle South | 11 | 1 | 3 | 1 | 2 | 0 | 4 | 0 | 2 | 0 |
| Shoreline | 5 | 0 |  | 0 | 1 | 0 | 2 | 0 | 2 | 0 |
| Skagit Valley | 4 | -1 | 1 | -1 | 1 | 0 | 1 | 0 | 1 | 0 |
| South Puget Sound | 6 | 0 |  | 0 | 2 | 0 | 3 | 0 | 1 | 0 |
| Spokane | 5 | 0 |  | -1 | 1 | 0 | 3 | 1 | 1 | 0 |
| Spokane Falls | 11 | 3 | 1 | 0 | 3 | 1 | 4 | 1 | 3 | 1 |
| Tacoma | 5 | 0 | 1 | 1 | 1 | 0 | 1 | -1 | 2 | 0 |
| Walla Walla | 4 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Wenatchee Valley | 5 | 0 |  | 0 | 1 | 0 | 3 | 0 | 1 | 0 |
| Whatcom | 5 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| Yakima Valley | 6 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 2 | 0 |
|  | 219 | 15 | 30 | 6 | 53 | 4 | 74 | 3 | 62 | 2 |

**Study Question 3E: Disaggregate percentage of pre-college math students earning points for 2008-2009 by age group, gender, race/ethnicity, enrollment status (full or part-time) and student purpose (workforce, transfer or basic skills).**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Students Earning Points 2008-2009 by Primary Age Group as a Percentage of Students Taking Pre-College Math in Each Group | | | | | | |
| College Name | Math Students | Earning Points | Under 20 | 20-29 | 30-39 | 40+ |
| Bates | 444 | 76% | 67% | 82% | 91% | 80% |
| Bellevue | 1523 | 66% | 62% | 68% | 77% | 76% |
| Bellingham | 340 | 61% | 76% | 56% | 58% | 63% |
| Big Bend | 575 | 63% | 62% | 59% | 73% | 75% |
| Cascadia | 743 | 73% | 70% | 75% | 85% | 81% |
| Centralia | 399 | 93% | 95% | 90% | 96% | 94% |
| Clark | 1993 | 84% | 84% | 83% | 85% | 82% |
| Clover Park | 947 | 71% | 69% | 70% | 70% | 77% |
| Columbia Basin | 1025 | 75% | 74% | 74% | 84% | 71% |
| Edmonds | 1774 | 63% | 61% | 63% | 68% | 72% |
| Everett | 1405 | 67% | 59% | 72% | 82% | 74% |
| Grays Harbor | 340 | 75% | 75% | 75% | 77% | 72% |
| Green River | 1647 | 73% | 72% | 74% | 74% | 72% |
| Highline | 1291 | 68% | 64% | 70% | 73% | 70% |
| Lake Washington | 707 | 84% | 85% | 83% | 85% | 86% |
| Lower Columbia | 762 | 67% | 66% | 62% | 77% | 72% |
| Olympic | 1279 | 74% | 71% | 76% | 78% | 73% |
| Peninsula | 541 | 68% | 65% | 70% | 68% | 71% |
| Pierce Fort Steil. | 1097 | 64% | 57% | 66% | 69% | 65% |
| Pierce Puyallup | 754 | 69% | 64% | 72% | 74% | 77% |
| Renton | 182 | 77% | 68% | 73% | 84% | 89% |
| Seattle Central | 1198 | 72% | 65% | 75% | 84% | 70% |
| Seattle North | 716 | 69% | 66% | 67% | 75% | 75% |
| Seattle South | 744 | 76% | 82% | 74% | 75% | 75% |
| Shoreline | 902 | 65% | 63% | 63% | 82% | 78% |
| Skagit Valley | 1210 | 67% | 67% | 65% | 69% | 78% |
| South Puget Sound | 1037 | 76% | 75% | 77% | 73% | 82% |
| Spokane | 1124 | 67% | 65% | 65% | 74% | 67% |
| Spokane Falls | 2758 | 62% | 65% | 58% | 60% | 55% |
| Tacoma | 1418 | 76% | 74% | 77% | 82% | 79% |
| Walla Walla | 690 | 63% | 55% | 69% | 75% | 75% |
| Wenatchee Valley | 800 | 57% | 54% | 58% | 63% | 69% |
| Whatcom | 1382 | 78% | 75% | 79% | 87% | 82% |
| Yakima Valley | 958 | 75% | 75% | 74% | 78% | 73% |
|  | 34705 | 70% | 68% | 70% | 76% | 74% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Students Earning Points 2008-2009 by Gender as a Percentage of Students Taking Pre-College Math in Each Category | | | | |
| College Name | Total Math Students | Earning Points | Female | Male |
| Bates | 444 | 76% | 76% | 76% |
| Bellevue | 1523 | 66% | 73% | 60% |
| Bellingham | 340 | 61% | 53% | 71% |
| Big Bend | 575 | 63% | 68% | 56% |
| Cascadia | 743 | 73% | 71% | 74% |
| Centralia | 399 | 93% | 92% | 95% |
| Clark | 1993 | 84% | 85% | 82% |
| Clover Park | 947 | 71% | 70% | 71% |
| Columbia Basin | 1025 | 75% | 76% | 74% |
| Edmonds | 1774 | 63% | 67% | 60% |
| Everett | 1405 | 67% | 71% | 62% |
| Grays Harbor | 340 | 75% | 79% | 70% |
| Green River | 1647 | 73% | 77% | 68% |
| Highline | 1291 | 68% | 69% | 66% |
| Lake Washington | 707 | 84% | 88% | 82% |
| Lower Columbia | 762 | 67% | 71% | 64% |
| Olympic | 1279 | 74% | 76% | 72% |
| Peninsula | 541 | 68% | 68% | 67% |
| Pierce Fort Steilacoom | 1097 | 64% | 65% | 63% |
| Pierce Puyallup | 754 | 69% | 72% | 65% |
| Renton | 182 | 77% | 75% | 80% |
| Seattle Central | 1198 | 72% | 73% | 71% |
| Seattle North | 716 | 69% | 68% | 70% |
| Seattle South | 744 | 76% | 76% | 77% |
| Shoreline | 902 | 65% | 69% | 62% |
| Skagit Valley | 1210 | 67% | 71% | 62% |
| South Puget Sound | 1037 | 76% | 79% | 72% |
| Spokane | 1124 | 67% | 67% | 66% |
| Spokane Falls | 2758 | 62% | 66% | 56% |
| Tacoma | 1418 | 76% | 79% | 73% |
| Walla Walla | 690 | 63% | 65% | 61% |
| Wenatchee Valley | 800 | 57% | 60% | 53% |
| Whatcom | 1382 | 78% | 81% | 75% |
| Yakima Valley | 958 | 75% | 75% | 74% |
|  | 34705 | 70% | 73% | 68% |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Students Earning Points 2008-2009 by Race/Ethnicity as a  Percentage of Students in Each Category Taking Pre-College Math | | | | | | | | |
| College Name | Total Math Students | Earning Points | Asian/ Pacific Islander | African American | Native American | Latino | Other Multiracial | White |
| Bates | 444 | 76% | 85% | 67% | 54% | 74% | 40% | 79% |
| Bellevue | 1523 | 66% | 62% | 51% | 79% | 63% | 65% | 69% |
| Bellingham | 340 | 61% | 71% | 44% | 71% | 88% | 71% | 63% |
| Big Bend | 575 | 63% | 69% | 67% | 42% | 64% | 67% | 62% |
| Cascadia | 743 | 73% | 79% | 80% | 67% | 78% | 68% | 71% |
| Centralia | 399 | 93% | 100% | 100% | 89% | 100% | 86% | 93% |
| Clark | 1993 | 84% | 86% | 72% | 83% | 85% | 80% | 84% |
| Clover Park | 947 | 71% | 72% | 55% | 20% | 70% | 57% | 75% |
| Columbia Basin | 1025 | 75% | 69% | 63% | 50% | 77% | 67% | 75% |
| Edmonds | 1774 | 63% | 57% | 57% | 67% | 59% | 60% | 67% |
| Everett | 1405 | 67% | 71% | 61% | 50% | 56% | 61% | 68% |
| Grays Harbor | 340 | 75% | 90% | 67% | 38% | 68% | 73% | 77% |
| Green River | 1647 | 73% | 72% | 55% | 88% | 67% | 73% | 74% |
| Highline | 1291 | 68% | 70% | 52% | 57% | 64% | 68% | 73% |
| Lake Washington | 707 | 84% | 83% | 73% | 100% | 78% | 81% | 85% |
| Lower Columbia | 762 | 67% | 80% | 45% | 82% | 64% | 70% | 68% |
| Olympic | 1279 | 74% | 74% | 65% | 43% | 68% | 70% | 76% |
| Peninsula | 541 | 68% | 67% | 45% | 57% | 65% | 63% | 70% |
| Pierce Fort Steil. | 1097 | 64% | 61% | 57% | 63% | 65% | 59% | 67% |
| Pierce Puyallup | 754 | 69% | 78% | 41% | 63% | 72% | 69% | 70% |
| Renton | 182 | 77% | 85% | 81% | 100% | 77% | 88% | 72% |
| Seattle Central | 1198 | 72% | 72% | 58% | 52% | 68% | 72% | 78% |
| Seattle North | 716 | 69% | 62% | 55% | 58% | 71% | 65% | 73% |
| Seattle South | 744 | 76% | 84% | 71% | 75% | 76% | 77% | 74% |
| Shoreline | 902 | 65% | 67% | 53% | 50% | 46% | 69% | 69% |
| Skagit Valley | 1210 | 67% | 72% | 46% | 70% | 63% | 68% | 68% |
| South Puget Sound | 1037 | 76% | 83% | 65% | 71% | 65% | 67% | 78% |
| Spokane | 1124 | 67% | 86% | 44% | 53% | 61% | 59% | 68% |
| Spokane Falls | 2758 | 62% | 65% | 48% | 44% | 56% | 47% | 64% |
| Tacoma | 1418 | 76% | 82% | 66% | 90% | 73% | 76% | 78% |
| Walla Walla | 690 | 63% | 91% | 56% | 45% | 60% | 55% | 64% |
| Wenatchee Valley | 800 | 57% | 44% | 0% | 43% | 57% | 46% | 59% |
| Whatcom | 1382 | 78% | 81% | 38% | 88% | 78% | 81% | 78% |
| Yakima Valley | 958 | 75% | 83% | 62% | 76% | 73% | 61% | 77% |
|  | 34705 | 70% | 71% | 58% | 62% | 68% | 67% | 72% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Students Earning Points 2008-2009 by Enrollment Status as a Percentage of Students in Each Category Taking Pre-College Math | | | | |
| College Name | Total Math Students | Earning a Point | Full-Time | Part-Time |
| Bates | 444 | 76% | 77% | 67% |
| Bellevue | 1523 | 66% | 65% | 68% |
| Bellingham | 340 | 61% | 69% | 53% |
| Big Bend | 575 | 63% | 62% | 64% |
| Cascadia | 743 | 73% | 71% | 75% |
| Centralia | 399 | 93% | 95% | 89% |
| Clark | 1993 | 84% | 84% | 83% |
| Clover Park | 947 | 71% | 72% | 67% |
| Columbia Basin | 1025 | 75% | 75% | 75% |
| Edmonds | 1774 | 63% | 66% | 60% |
| Everett | 1405 | 67% | 66% | 68% |
| Grays Harbor | 340 | 75% | 78% | 68% |
| Green River | 1647 | 73% | 72% | 73% |
| Highline | 1291 | 68% | 66% | 70% |
| Lake Washington | 707 | 84% | 83% | 87% |
| Lower Columbia | 762 | 67% | 67% | 69% |
| Olympic | 1279 | 74% | 72% | 76% |
| Peninsula | 541 | 68% | 67% | 69% |
| Pierce Fort Steilacoom | 1097 | 64% | 61% | 67% |
| Pierce Puyallup | 754 | 69% | 66% | 71% |
| Renton | 182 | 77% | 78% | 76% |
| Seattle Central | 1198 | 72% | 71% | 74% |
| Seattle North | 716 | 69% | 69% | 68% |
| Seattle South | 744 | 76% | 77% | 76% |
| Shoreline | 902 | 65% | 66% | 64% |
| Skagit Valley | 1210 | 67% | 67% | 67% |
| South Puget Sound | 1037 | 76% | 75% | 78% |
| Spokane | 1124 | 67% | 66% | 69% |
| Spokane Falls | 2758 | 62% | 61% | 62% |
| Tacoma | 1418 | 76% | 77% | 75% |
| Walla Walla | 690 | 63% | 63% | 64% |
| Wenatchee Valley | 800 | 57% | 57% | 59% |
| Whatcom | 1382 | 78% | 79% | 77% |
| Yakima Valley | 958 | 75% | 75% | 75% |
|  | 34705 | 70% | 70% | 71% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Students Earning Points 2008-2009 by Purpose as a Percentage of Students in Each Category Taking Pre-College Math | | | | | |
| College Name | Total Math Students | Earning Points | Basic Skills | Transfer | Workforce |
| Bates | 444 | 76% | 65% | 20% | 80% |
| Bellevue | 1523 | 66% | 79% | 66% | 64% |
| Bellingham | 340 | 61% | 25% | 0% | 62% |
| Big Bend | 575 | 63% | 89% | 61% | 68% |
| Cascadia | 743 | 73% | 72% | 73% | 73% |
| Centralia | 399 | 93% | 94% | 93% | 95% |
| Clark | 1993 | 84% | 67% | 84% | 82% |
| Clover Park | 947 | 71% | 54% | 63% | 72% |
| Columbia Basin | 1025 | 75% | 100% | 75% | 74% |
| Edmonds | 1774 | 63% | 35% | 65% | 67% |
| Everett | 1405 | 67% | 55% | 66% | 71% |
| Grays Harbor | 340 | 75% | 36% | 78% | 75% |
| Green River | 1647 | 73% | 52% | 75% | 64% |
| Highline | 1291 | 68% | 72% | 68% | 66% |
| Lake Washington | 707 | 84% | 73% | 84% | 85% |
| Lower Columbia | 762 | 67% | 57% | 71% | 65% |
| Olympic | 1279 | 74% | 57% | 73% | 77% |
| Peninsula | 541 | 68% | 81% | 69% | 64% |
| Pierce Fort Steilacoom | 1097 | 64% | 100% | 63% | 67% |
| Pierce Puyallup | 754 | 69% | 88% | 68% | 75% |
| Renton | 182 | 77% | 64% | 71% | 82% |
| Seattle Central | 1198 | 72% | 56% | 73% | 72% |
| Seattle North | 716 | 69% | 50% | 69% | 73% |
| Seattle South | 744 | 76% | 87% | 76% | 76% |
| Shoreline | 902 | 65% | 57% | 68% | 61% |
| Skagit Valley | 1210 | 67% | 41% | 68% | 68% |
| South Puget Sound | 1037 | 76% | 50% | 75% | 78% |
| Spokane | 1124 | 67% | 83% | 68% | 61% |
| Spokane Falls | 2758 | 62% | 53% | 62% | 59% |
| Tacoma | 1418 | 76% | 86% | 77% | 74% |
| Walla Walla | 690 | 63% | 40% | 64% | 69% |
| Wenatchee Valley | 800 | 57% | 65% | 58% | 53% |
| Whatcom | 1382 | 78% | 79% | 78% | 78% |
| Yakima Valley | 958 | 75% | 74% | 76% | 71% |
|  | 34705 | 70% | 58% | 71% | 72% |

**Study Question 4A: For students who started in Fall 2006, what year do they make their first attempt in a pre-college course (through Spring 2009)?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fall 2006 Start: Year of First Attempt at Pre-College Math | | | | |
| College Name | Total Students | 2006-2007 | 2007-2008 | 2008-2009 |
| Bates | 176 | 69% | 28% | 3% |
| Bellevue | 661 | 83% | 11% | 5% |
| Bellingham | 23 | 65% | 22% | 13% |
| Big Bend | 221 | 84% | 11% | 5% |
| Cascadia | 280 | 89% | 8% | 3% |
| Centralia | 176 | 86% | 10% | 4% |
| Clark | 719 | 81% | 11% | 8% |
| Clover Park | 247 | 85% | 13% | 3% |
| Columbia Basin | 508 | 78% | 19% | 3% |
| Edmonds | 728 | 86% | 10% | 5% |
| Everett | 574 | 76% | 14% | 10% |
| Grays Harbor | 173 | 82% | 16% | 3% |
| Green River | 720 | 71% | 22% | 7% |
| Highline | 561 | 73% | 19% | 9% |
| Lake Washington | 245 | 80% | 16% | 4% |
| Lower Columbia | 301 | 86% | 9% | 5% |
| Olympic | 483 | 78% | 16% | 5% |
| Peninsula | 166 | 79% | 15% | 6% |
| Pierce Fort Steilacoom | 442 | 80% | 11% | 9% |
| Pierce Puyallup | 258 | 77% | 16% | 7% |
| Renton | 23 | 22% | 39% | 39% |
| Seattle Central | 379 | 76% | 17% | 7% |
| Seattle North | 269 | 80% | 13% | 7% |
| Seattle South | 214 | 76% | 15% | 8% |
| Shoreline | 375 | 80% | 15% | 5% |
| Skagit Valley | 479 | 81% | 13% | 6% |
| South Puget Sound | 413 | 76% | 18% | 7% |
| Spokane | 423 | 79% | 15% | 6% |
| Spokane Falls | 1062 | 81% | 14% | 5% |
| Tacoma | 507 | 84% | 12% | 4% |
| Walla Walla | 319 | 80% | 15% | 6% |
| Wenatchee Valley | 385 | 79% | 14% | 7% |
| Whatcom | 520 | 84% | 10% | 6% |
| Yakima Valley | 380 | 78% | 15% | 7% |
|  | 13410 | 80% | 14% | 6% |

**Study Question 4B: For students who started in Fall 2006 and made their first attempt during 2006-2007, what percent started at each level?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Start Fall 2006, First Math 2006-2007, Level Start | | | | | |
| College Name | Total Students | Level 1 Start | Level 2 Start | Level 3 Start | Level 4 Start |
| Bates | 122 | 0% | 63% | 15% | 22% |
| Bellevue | 551 | 7% | 41% | 25% | 27% |
| Bellingham | 15 | 0% | 7% | 80% | 13% |
| Big Bend | 186 | 18% | 34% | 34% | 13% |
| Cascadia | 250 | 0% | 23% | 32% | 44% |
| Centralia | 151 | 1% | 43% | 36% | 21% |
| Clark | 585 | 40% | 11% | 34% | 15% |
| Clover Park | 209 | 0% | 75% | 24% | 0% |
| Columbia Basin | 396 | 0% | 22% | 37% | 41% |
| Edmonds | 624 | 10% | 18% | 33% | 39% |
| Everett | 437 | 28% | 20% | 35% | 17% |
| Grays Harbor | 141 | 4% | 21% | 52% | 23% |
| Green River | 513 | 0% | 30% | 56% | 14% |
| Highline | 408 | 0% | 42% | 29% | 29% |
| Lake Washington | 196 | 54% | 0% | 41% | 6% |
| Lower Columbia | 259 | 20% | 26% | 42% | 12% |
| Olympic | 379 | 22% | 3% | 35% | 40% |
| Peninsula | 131 | 0% | 60% | 31% | 10% |
| Pierce Fort Steilacoom | 354 | 34% | 0% | 34% | 32% |
| Pierce Puyallup | 198 | 40% | 0% | 35% | 24% |
| Renton | 5 | 0% | 40% | 40% | 20% |
| Seattle Central | 288 | 0% | 66% | 12% | 21% |
| Seattle North | 215 | 0% | 18% | 67% | 15% |
| Seattle South | 163 | 47% | 25% | 10% | 18% |
| Shoreline | 299 | 1% | 36% | 47% | 16% |
| Skagit Valley | 386 | 55% | 32% | 7% | 6% |
| South Puget Sound | 312 | 0% | 33% | 43% | 24% |
| Spokane | 336 | 16% | 40% | 28% | 16% |
| Spokane Falls | 862 | 14% | 49% | 12% | 25% |
| Tacoma | 425 | 3% | 28% | 49% | 20% |
| Walla Walla | 254 | 22% | 21% | 37% | 19% |
| Wenatchee Valley | 304 | 0% | 19% | 38% | 42% |
| Whatcom | 439 | 17% | 37% | 40% | 6% |
| Yakima Valley | 296 | 38% | 29% | 21% | 12% |
|  | 10689 | 16% | 29% | 33% | 22% |

**Study Question 4C: For students who started in A672 and made their first attempt during A67, what percent make substantive gains?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Start Fall 2006, First Math 2006-2007 Level 1, Max Level through Spring 2009 | | | | | |
| College Name | Total | Level 1 | Level 2 | Level 3 | Level 4 |
| Bellevue | 36 | 39% | 19% | 8% | 33% |
| Big Bend | 34 | 29% | 35% | 18% | 18% |
| Cascadia | 1 | 0% | 0% | 0% | 100% |
| Centralia | 1 | 0% | 100% | 0% | 0% |
| Clark | 234 | 30% | 8% | 18% | 44% |
| Clover Park | 1 | 0% | 100% | 0% | 0% |
| Edmonds | 61 | 52% | 23% | 2% | 23% |
| Everett | 123 | 28% | 23% | 20% | 29% |
| Grays Harbor | 5 | 0% | 20% | 40% | 40% |
| Lake Washington | 105 | 49% | 0% | 41% | 10% |
| Lower Columbia | 51 | 49% | 14% | 18% | 20% |
| Olympic | 84 | 0% | 0% | 26% | 74% |
| Pierce Fort Steilacoom | 120 | 23% | 0% | 28% | 50% |
| Pierce Puyallup | 80 | 13% | 0% | 35% | 53% |
| Seattle Central | 1 | 0% | 0% | 100% | 0% |
| Seattle South | 76 | 36% | 20% | 17% | 28% |
| Shoreline | 2 | 0% | 50% | 0% | 50% |
| Skagit Valley | 211 | 45% | 20% | 15% | 20% |
| Spokane | 53 | 49% | 17% | 8% | 26% |
| Spokane Falls | 124 | 35% | 29% | 15% | 22% |
| Tacoma | 14 | 0% | 7% | 57% | 36% |
| Walla Walla | 57 | 54% | 19% | 16% | 11% |
| Whatcom | 74 | 27% | 27% | 22% | 24% |
| Yakima Valley | 112 | 30% | 21% | 13% | 37% |
|  | 1660 | 33% | 15% | 20% | 32% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Start Fall 2006, First Math 2006-2007 Level 2, Max Level through Spring 2009 | | | | |
| College Name | Total | Level 2 | Level 3 | Level 4 |
| Bates | 77 | 56% | 18% | 26% |
| Bellevue | 226 | 40% | 23% | 37% |
| Bellingham | 1 | 100% | 0% | 0% |
| Big Bend | 63 | 40% | 22% | 38% |
| Cascadia | 57 | 26% | 25% | 49% |
| Centralia | 65 | 54% | 25% | 22% |
| Clark | 62 | 37% | 18% | 45% |
| Clover Park | 156 | 32% | 56% | 12% |
| Columbia Basin | 89 | 28% | 19% | 53% |
| Edmonds | 110 | 35% | 24% | 41% |
| Everett | 88 | 31% | 31% | 39% |
| Grays Harbor | 29 | 41% | 34% | 24% |
| Green River | 154 | 32% | 24% | 44% |
| Highline | 172 | 40% | 24% | 37% |
| Lower Columbia | 67 | 39% | 21% | 40% |
| Olympic | 12 | 0% | 50% | 50% |
| Peninsula | 78 | 49% | 24% | 27% |
| Renton | 2 | 50% | 50% | 0% |
| Seattle Central | 191 | 42% | 13% | 45% |
| Seattle North | 38 | 21% | 26% | 53% |
| Seattle South | 41 | 27% | 27% | 46% |
| Shoreline | 108 | 25% | 41% | 34% |
| Skagit Valley | 123 | 31% | 17% | 52% |
| South Puget Sound | 103 | 40% | 17% | 43% |
| Spokane | 135 | 39% | 23% | 39% |
| Spokane Falls | 419 | 32% | 24% | 45% |
| Tacoma | 118 | 25% | 35% | 40% |
| Walla Walla | 54 | 41% | 31% | 28% |
| Wenatchee Valley | 58 | 43% | 36% | 21% |
| Whatcom | 163 | 25% | 25% | 50% |
| Yakima Valley | 87 | 31% | 20% | 49% |
|  | 3146 | 35% | 25% | 39% |

**Study Question 4d: For students who started in Fall 2006 and made their first attempt during 2006-2007, what percent earn their quant point by Spring 2009?**

|  |  |  |
| --- | --- | --- |
| Start Fall 2006, First Math 2006-2007,  Quant Point by Spring 2009 | | |
| College Name | Total Students | Earned Quant |
| Bates | 122 | 28% |
| Bellevue | 551 | 41% |
| Bellingham | 15 | 20% |
| Big Bend | 186 | 49% |
| Cascadia | 250 | 54% |
| Centralia | 151 | 50% |
| Clark | 585 | 37% |
| Clover Park | 209 | 45% |
| Columbia Basin | 396 | 42% |
| Edmonds | 624 | 51% |
| Everett | 437 | 35% |
| Grays Harbor | 141 | 65% |
| Green River | 514 | 53% |
| Highline | 408 | 46% |
| Lake Washington | 196 | 28% |
| Lower Columbia | 259 | 39% |
| Olympic | 379 | 49% |
| Peninsula | 131 | 31% |
| Pierce Fort Steilacoom | 354 | 37% |
| Pierce Puyallup | 198 | 39% |
| Renton | 5 | 20% |
| Seattle Central | 288 | 42% |
| Seattle North | 215 | 43% |
| Seattle South | 163 | 40% |
| Shoreline | 299 | 45% |
| Skagit Valley | 386 | 32% |
| South Puget Sound | 312 | 50% |
| Spokane | 336 | 39% |
| Spokane Falls | 862 | 35% |
| Tacoma | 425 | 40% |
| Walla Walla | 254 | 29% |
| Wenatchee Valley | 304 | 40% |
| Whatcom | 439 | 45% |
| Yakima Valley | 296 | 40% |
|  | 10690 | 42% |

**Study Question 4E: Of students who started in Fall of 2006 and take their first math in 2006-2007, what was their highest achievement point reached by Spring of 2009?**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Start Fall 2006, First Math 2006-2007, Highest Momentum Through Spring 2009 | | | | | | | | |
| College Name | Total Students | Tipping Point | Quant Course | 30 Credits | 15 Credits | College Ready Point | Basic Skills Gain | No Momentum |
| Bates | 122 | 29% | 9% | 18% | 7% | 22% | 0% | 16% |
| Bellevue | 551 | 14% | 27% | 22% | 12% | 13% | 0% | 12% |
| Bellingham | 15 | 53% | 0% | 7% | 20% | 7% | 0% | 13% |
| Big Bend | 186 | 19% | 31% | 17% | 19% | 8% | 0% | 6% |
| Cascadia | 250 | 22% | 32% | 15% | 12% | 8% | 0% | 11% |
| Centralia | 151 | 24% | 26% | 14% | 19% | 17% | 0% | 1% |
| Clark | 585 | 11% | 27% | 17% | 14% | 22% | 0% | 9% |
| Clover Park | 209 | 29% | 17% | 38% | 8% | 4% | 0% | 4% |
| Columbia Basin | 396 | 16% | 26% | 25% | 18% | 9% | 0% | 5% |
| Edmonds | 624 | 15% | 37% | 12% | 12% | 12% | 0% | 13% |
| Everett | 437 | 12% | 22% | 25% | 15% | 13% | 0% | 13% |
| Grays Harbor | 141 | 21% | 45% | 6% | 6% | 7% | 1% | 13% |
| Green River | 514 | 26% | 26% | 18% | 16% | 7% | 0% | 8% |
| Highline | 408 | 15% | 31% | 22% | 11% | 12% | 0% | 9% |
| Lake Washington | 196 | 15% | 17% | 34% | 12% | 14% | 0% | 8% |
| Lower Columbia | 259 | 26% | 18% | 17% | 11% | 14% | 0% | 15% |
| Olympic | 379 | 16% | 34% | 14% | 14% | 11% | 0% | 11% |
| Peninsula | 131 | 19% | 15% | 25% | 20% | 8% | 2% | 11% |
| Pierce Fort Steil. | 354 | 11% | 27% | 15% | 19% | 16% | 0% | 13% |
| Pierce Puyallup | 198 | 10% | 29% | 18% | 21% | 11% | 0% | 12% |
| Renton | 5 | 0% | 20% | 0% | 40% | 0% | 0% | 40% |
| Seattle Central | 288 | 19% | 24% | 18% | 14% | 11% | 0% | 14% |
| Seattle North | 215 | 15% | 28% | 10% | 15% | 15% | 0% | 16% |
| Seattle South | 163 | 15% | 26% | 18% | 19% | 17% | 0% | 5% |
| Shoreline | 299 | 16% | 27% | 20% | 16% | 10% | 1% | 9% |
| Skagit Valley | 386 | 13% | 20% | 21% | 16% | 18% | 0% | 12% |
| South Puget S. | 312 | 17% | 34% | 13% | 12% | 14% | 0% | 10% |
| Spokane | 336 | 18% | 23% | 25% | 13% | 10% | 0% | 12% |
| Spokane Falls | 862 | 15% | 19% | 20% | 15% | 7% | 0% | 24% |
| Tacoma | 425 | 12% | 27% | 18% | 16% | 12% | 0% | 15% |
| Walla Walla | 254 | 20% | 14% | 28% | 15% | 8% | 1% | 15% |
| Wenatchee V. | 304 | 16% | 25% | 14% | 15% | 16% | 1% | 13% |
| Whatcom | 439 | 20% | 26% | 16% | 15% | 15% | 0% | 8% |
| Yakima Valley | 296 | 17% | 23% | 22% | 14% | 18% | 0% | 7% |
| Total | 10690 | 17% | 26% | 19% | 14% | 12% | 0% | 12% |